

PATENT ABSTRACTS OF JAPAN

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(54) REAGENT FOR MEASUREMENT OF ENZYME IMMUNITY AND PREPARATION THEREOF

(57)Abstract:

PURPOSE: To improve the measuring sensitivity and reproducibility by making alkaliphosphatase (ALP) as an enzyme marker, and bonding four molecules of an antigen or antibody to one molecule of the enzyme marker thereby to obtain a reagent for enzyme immunity measurement.

CONSTITUTION: ALP to be used as a marker antibody has the molecular weight of 100,000, showing superior stability if used as an antibody marker. An antibody obtained, for example, by immunizing an animal against an antigen, or a fragment having the antigen avidity and obtained by making a protein lytic enzyme act to the above antibody may be usable as an antibody to mark an enzyme. A bridging agent having maleimide group is employable when the ALP is to be marked to an antibody. If an enzyme marker antibody obtained by bonding four molecules of antibodies with one molecule of the ALP with using the ALP as a marker enzyme is prepared to be a suitable concentration to a

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buffer solution of pH2.8 and used for the enzyme immunity measurement of homogeneous or heterogeneous method, it becomes easy to detect an object to be detected.

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